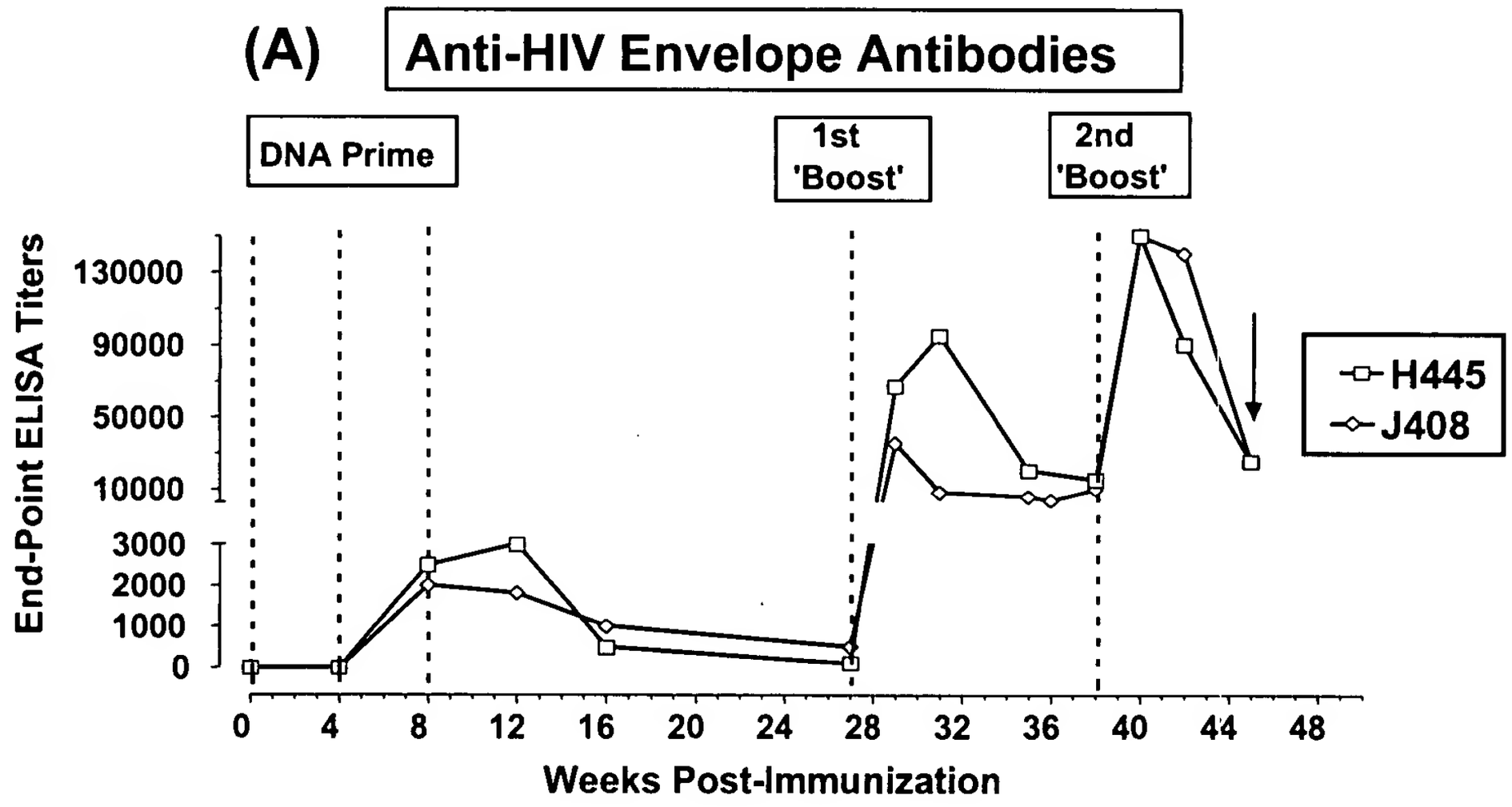
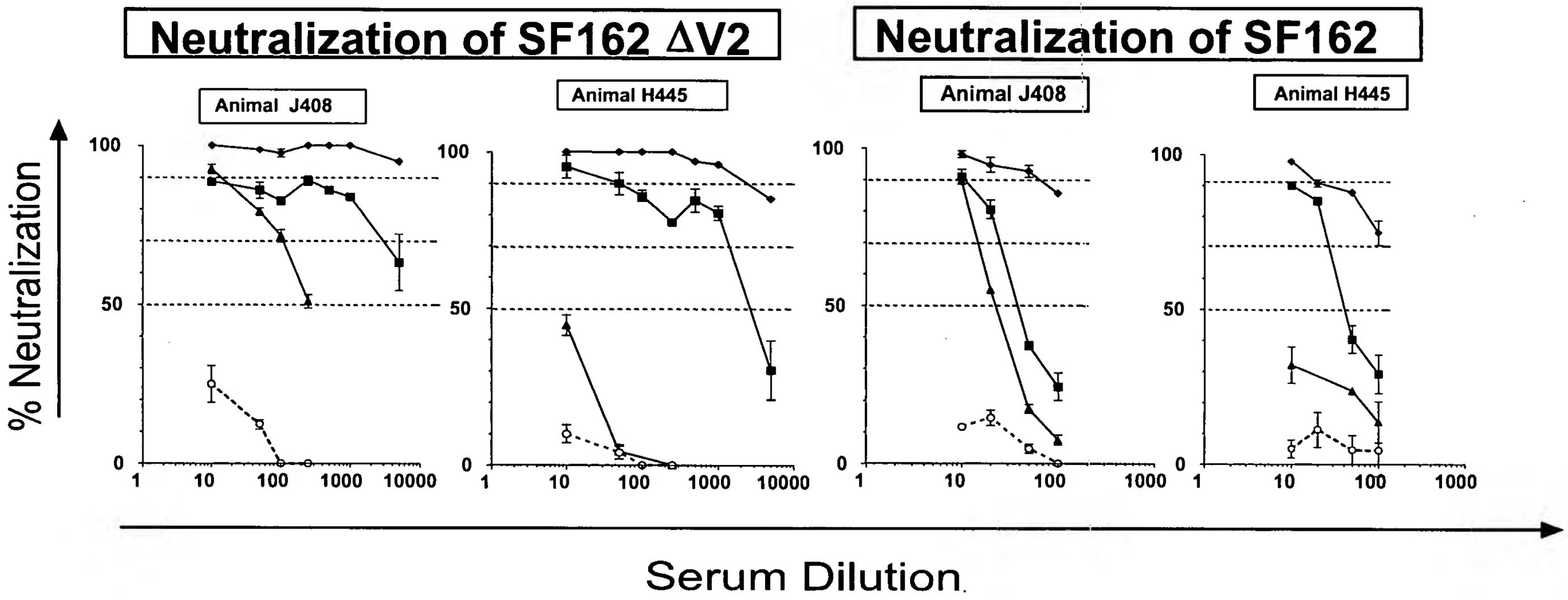
T09250 "60STE860

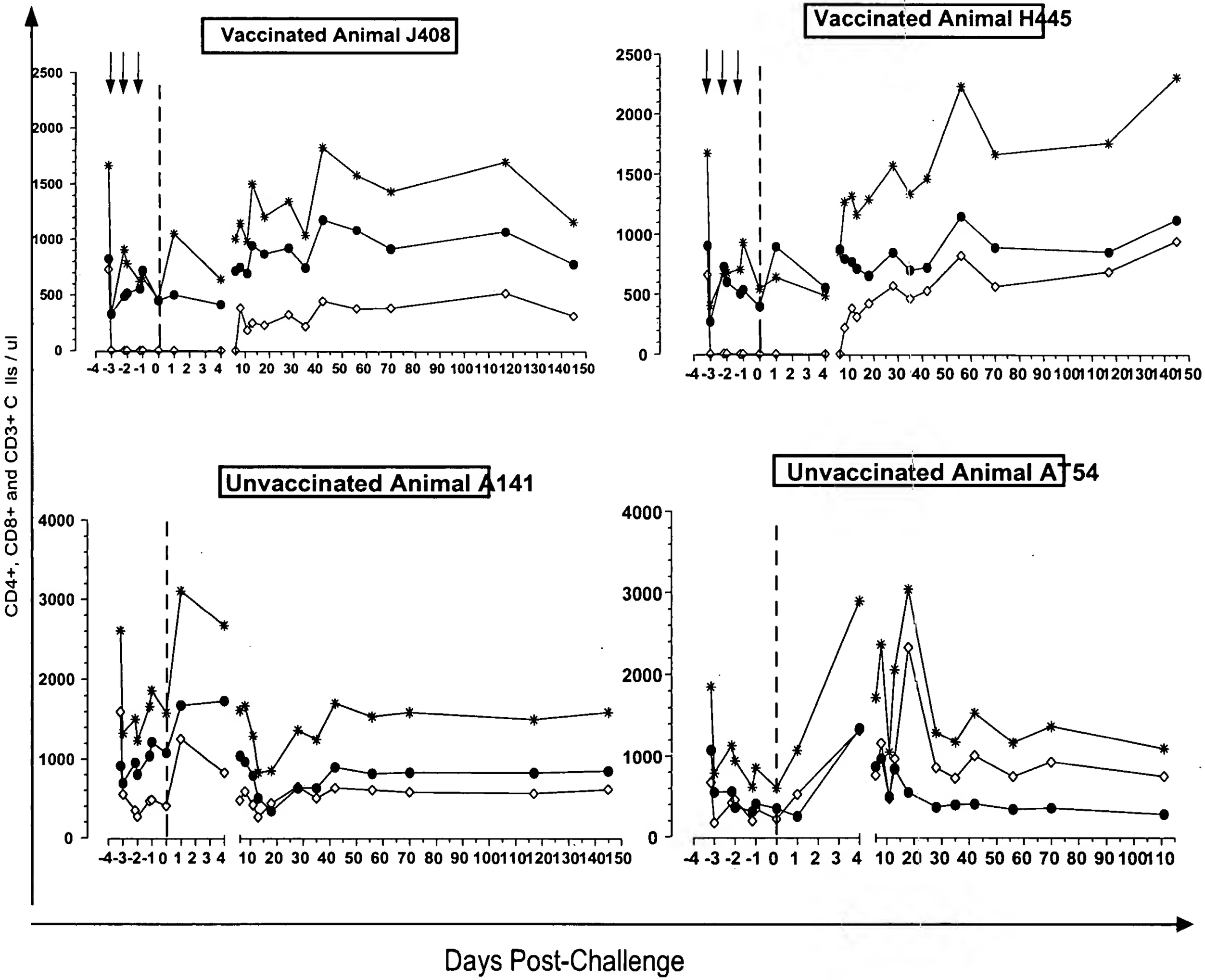


2570-1-001N FIGURE 1

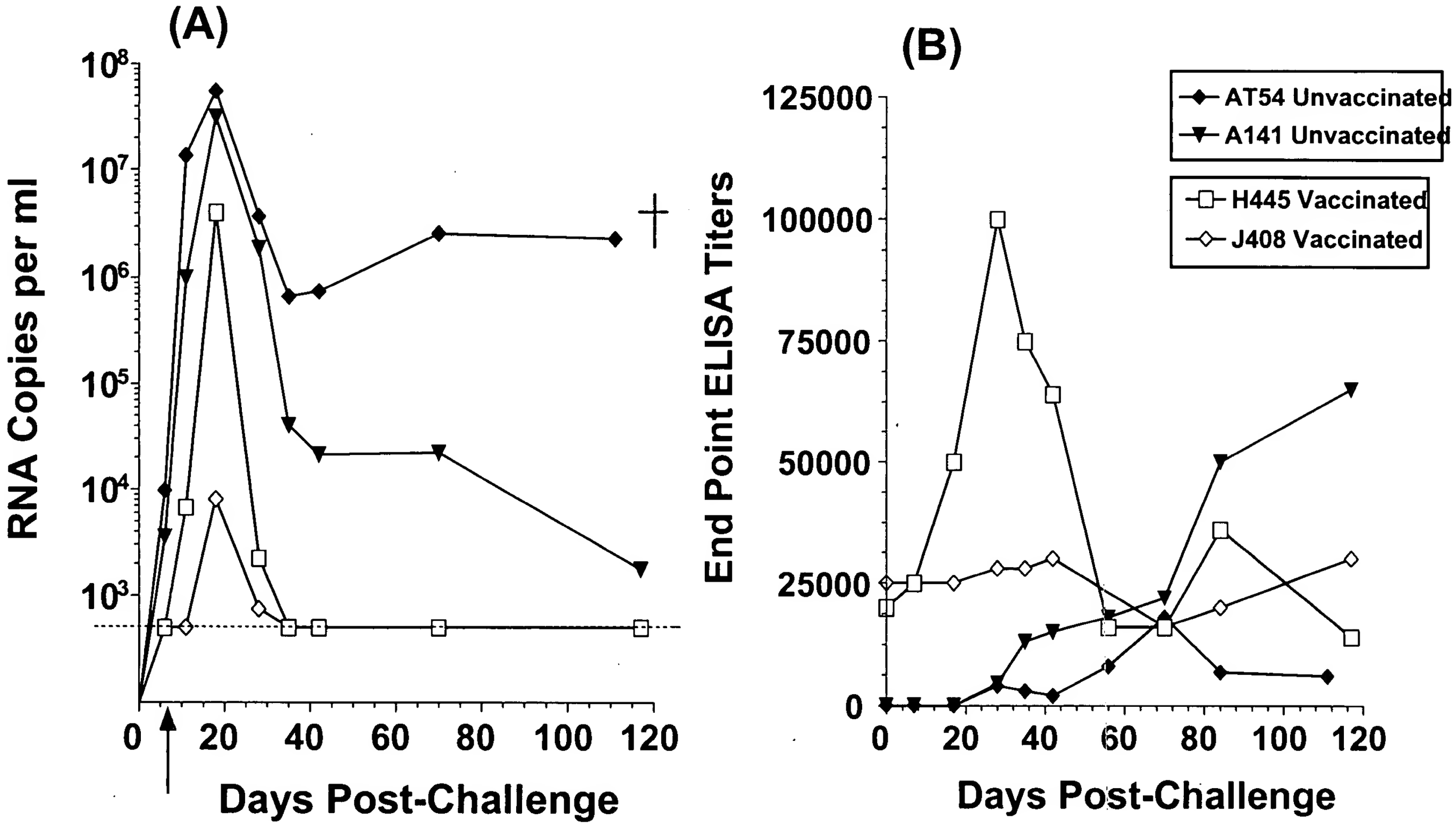


2570-1-001N FIGURE 2

2570-1-001N FIGURE 3

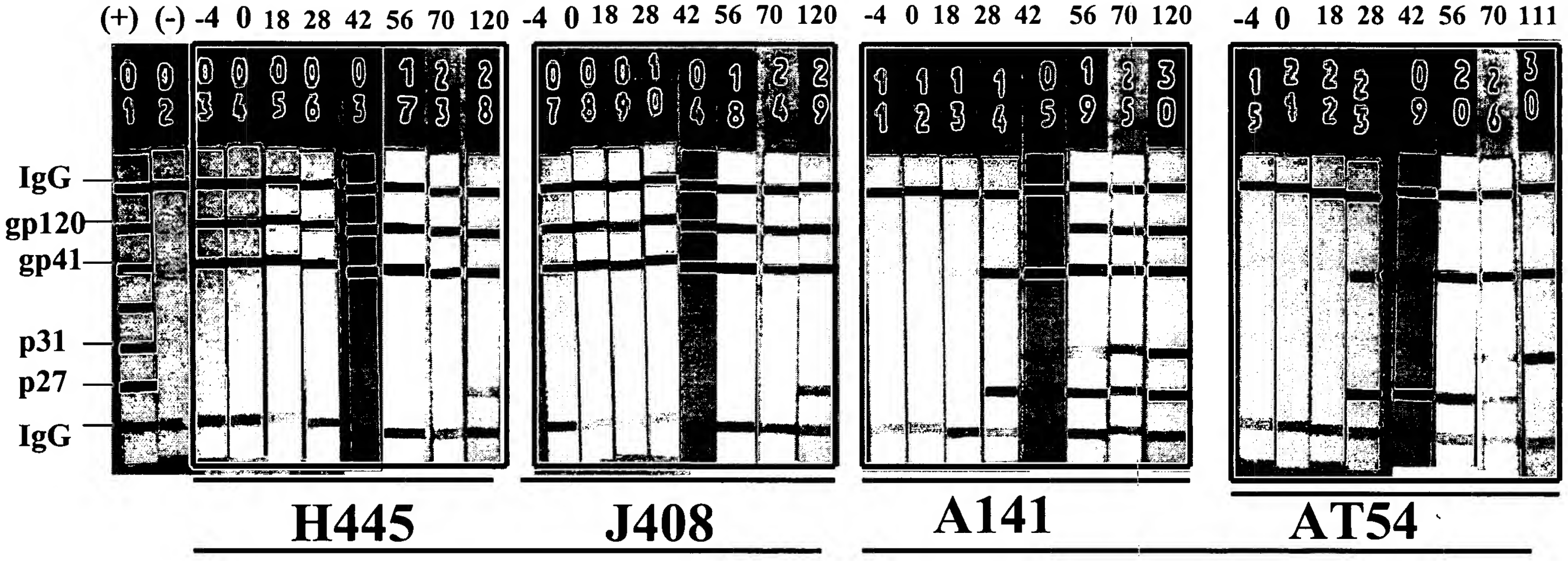


2570-1-001N FIGURE 4



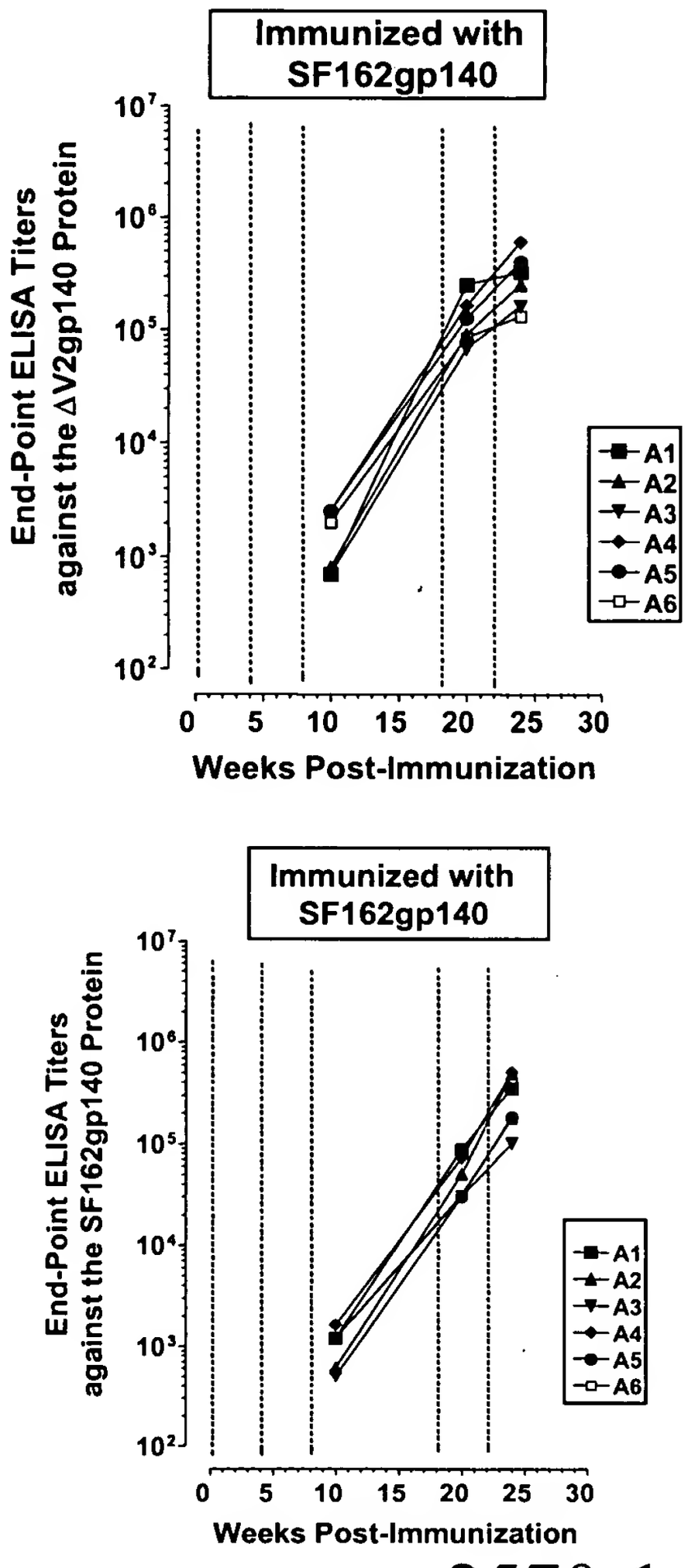
TD9250"60916860

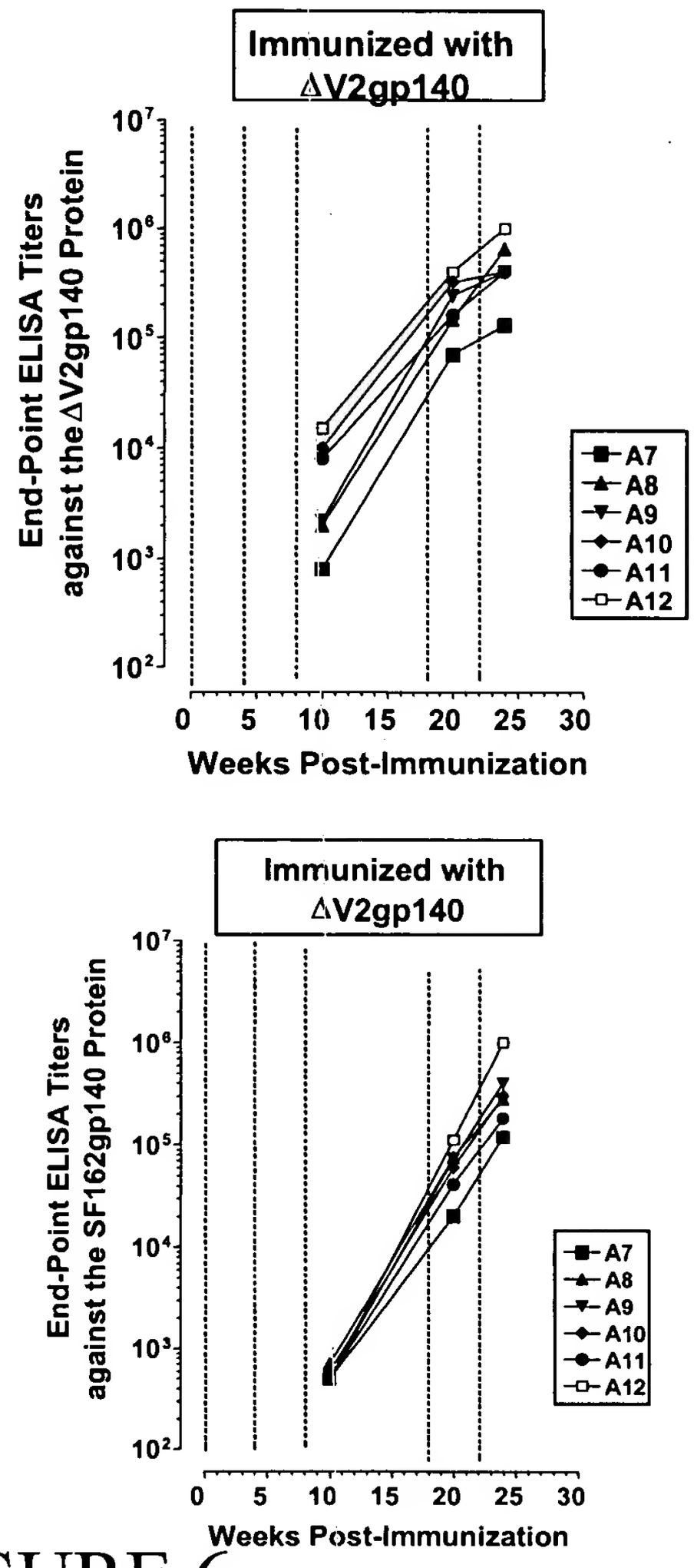
Seroconversion to SIV-gag/pol and HIV env Antigens



2570-1-001N FIGURE 5

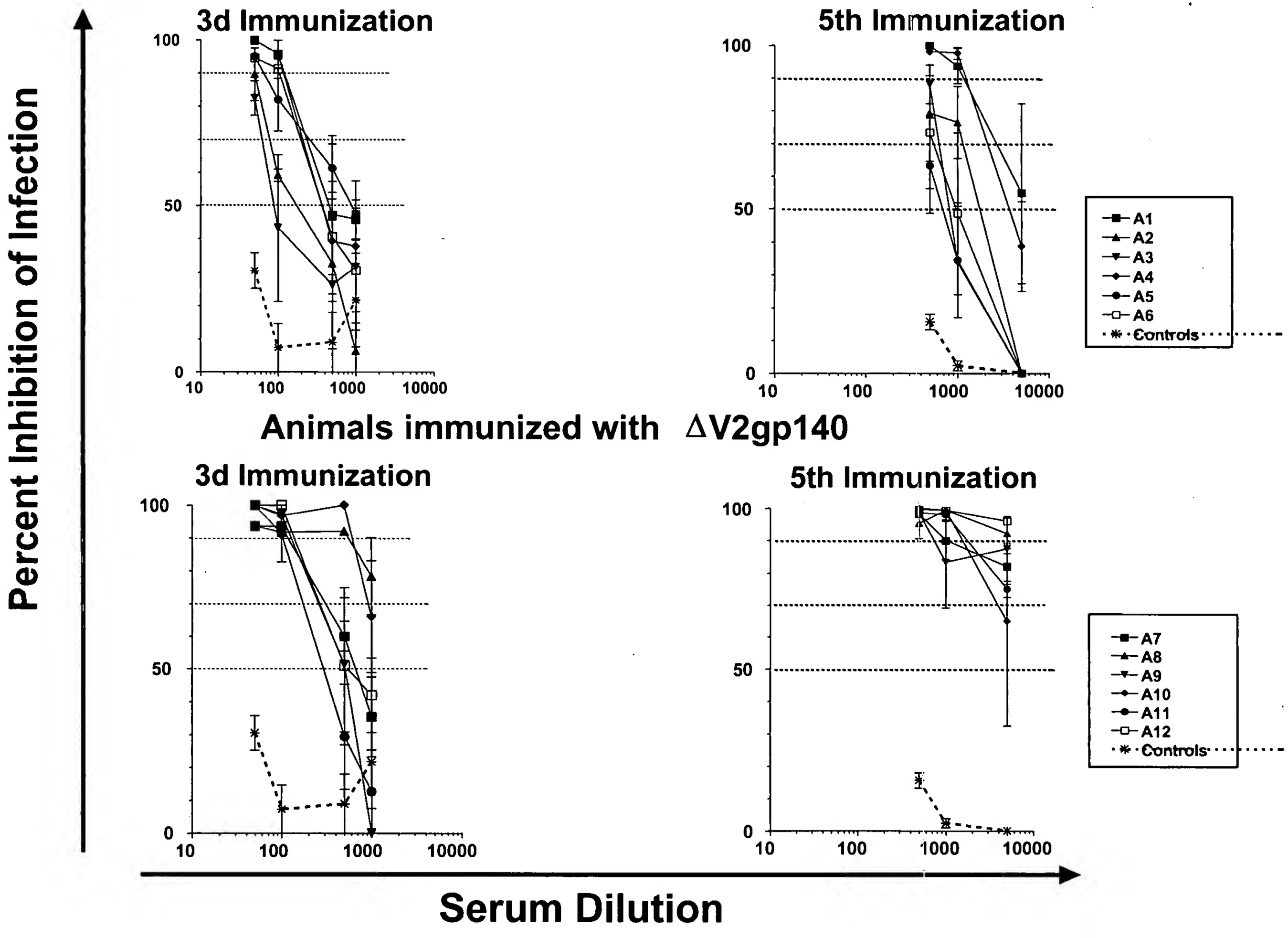
TO9290 "6097686D





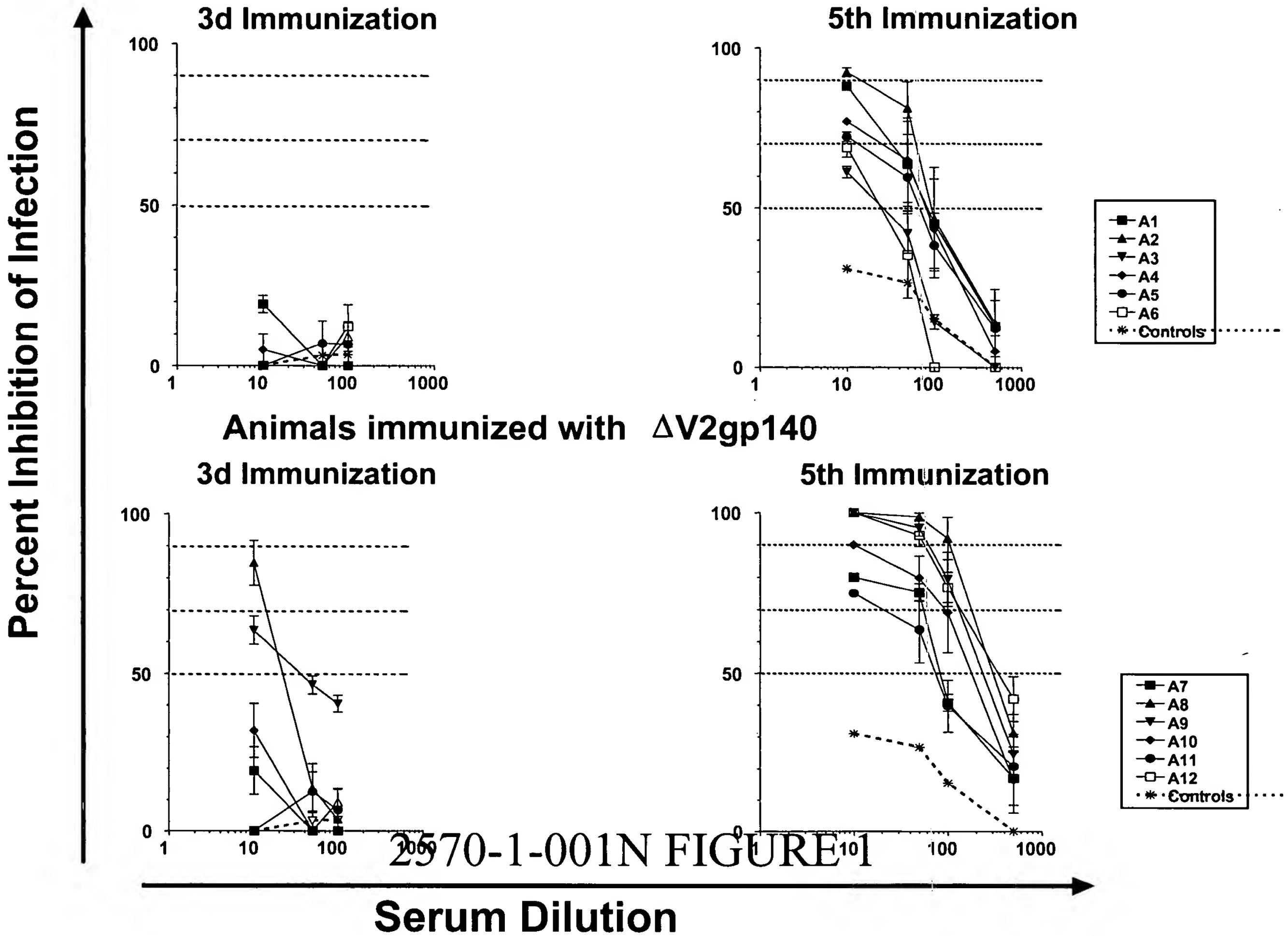
2570-1-001N FIGURE 6

T09290 "60ST6860



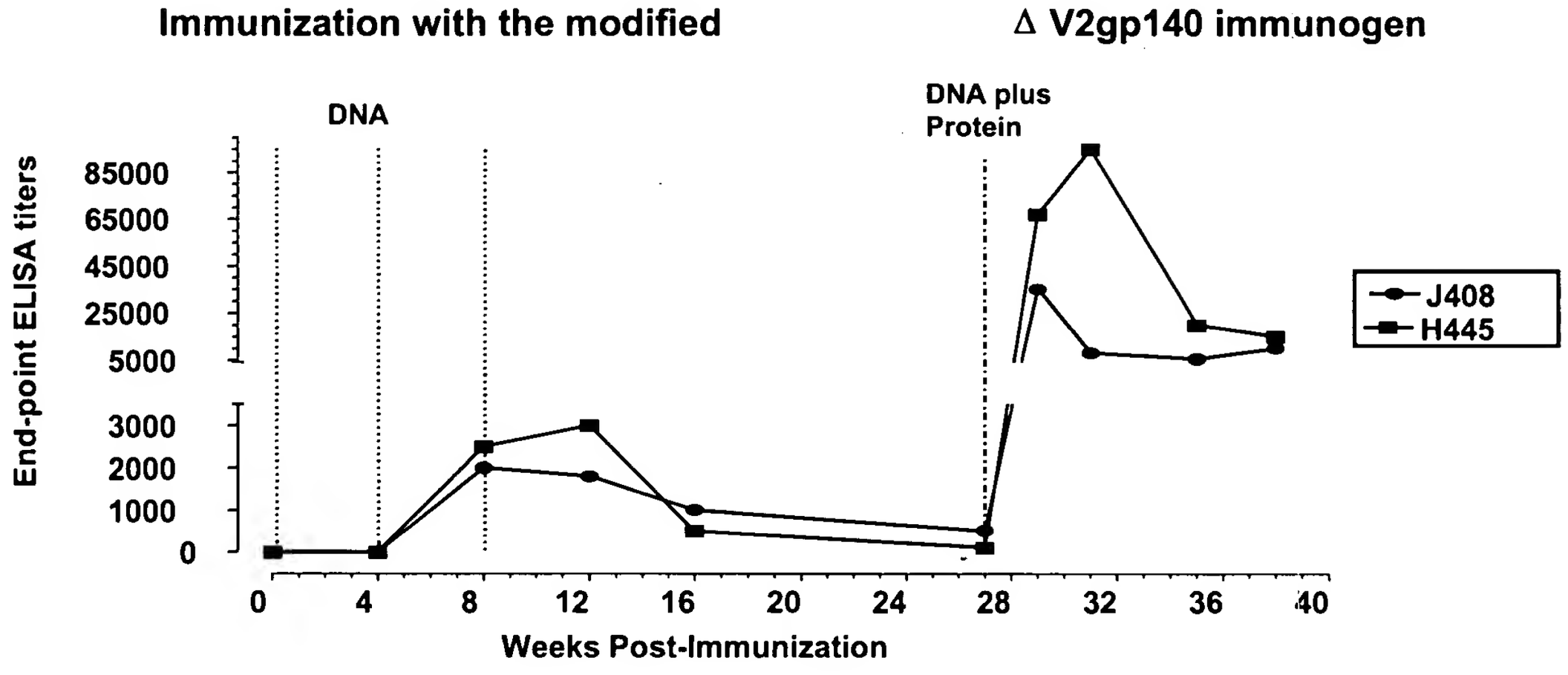
T09290 "6097b860

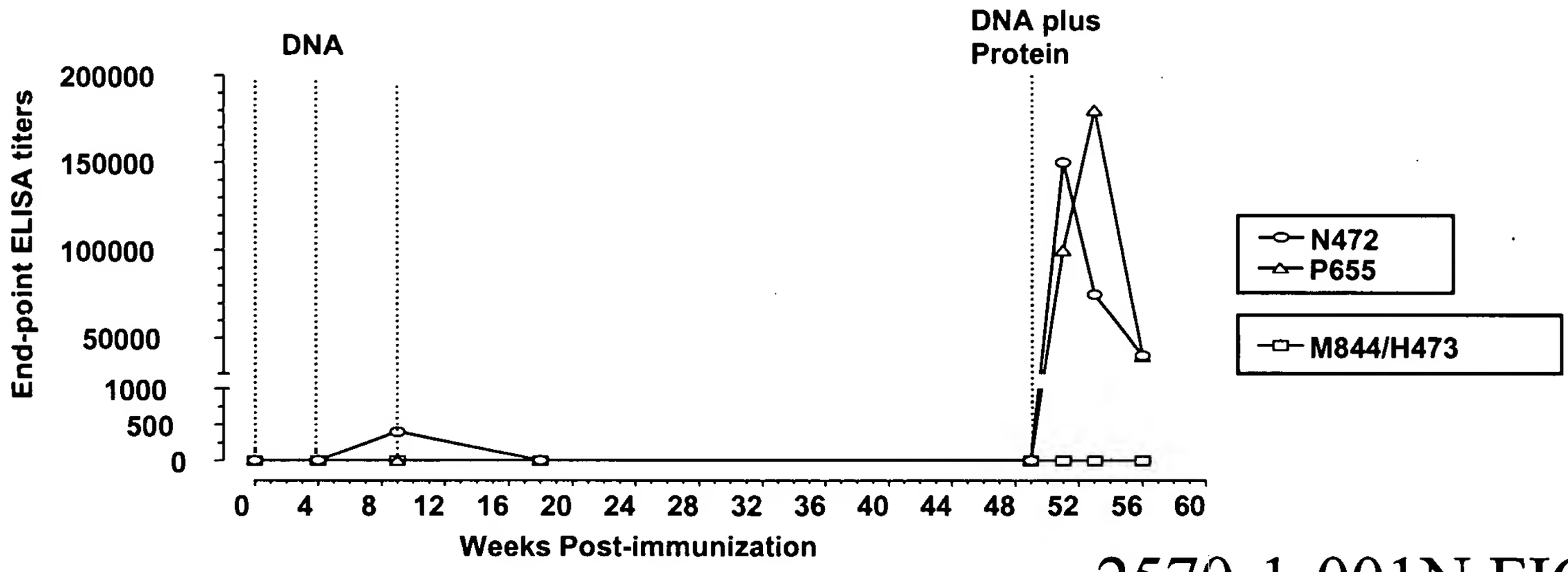
2570-1-001N FIGURE 7B



2570-1-001N FIGURE 1

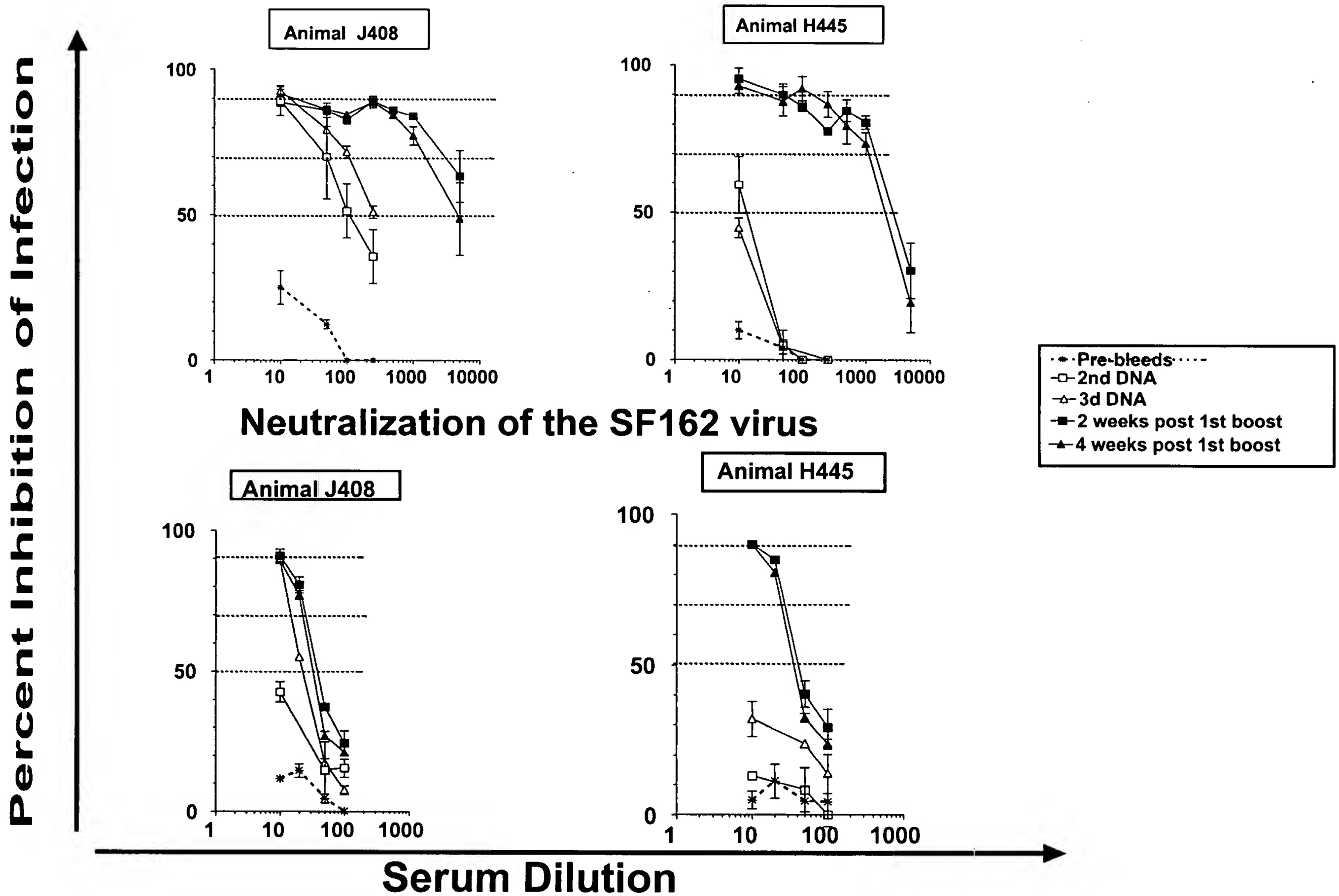
TO9290 "60STEBED

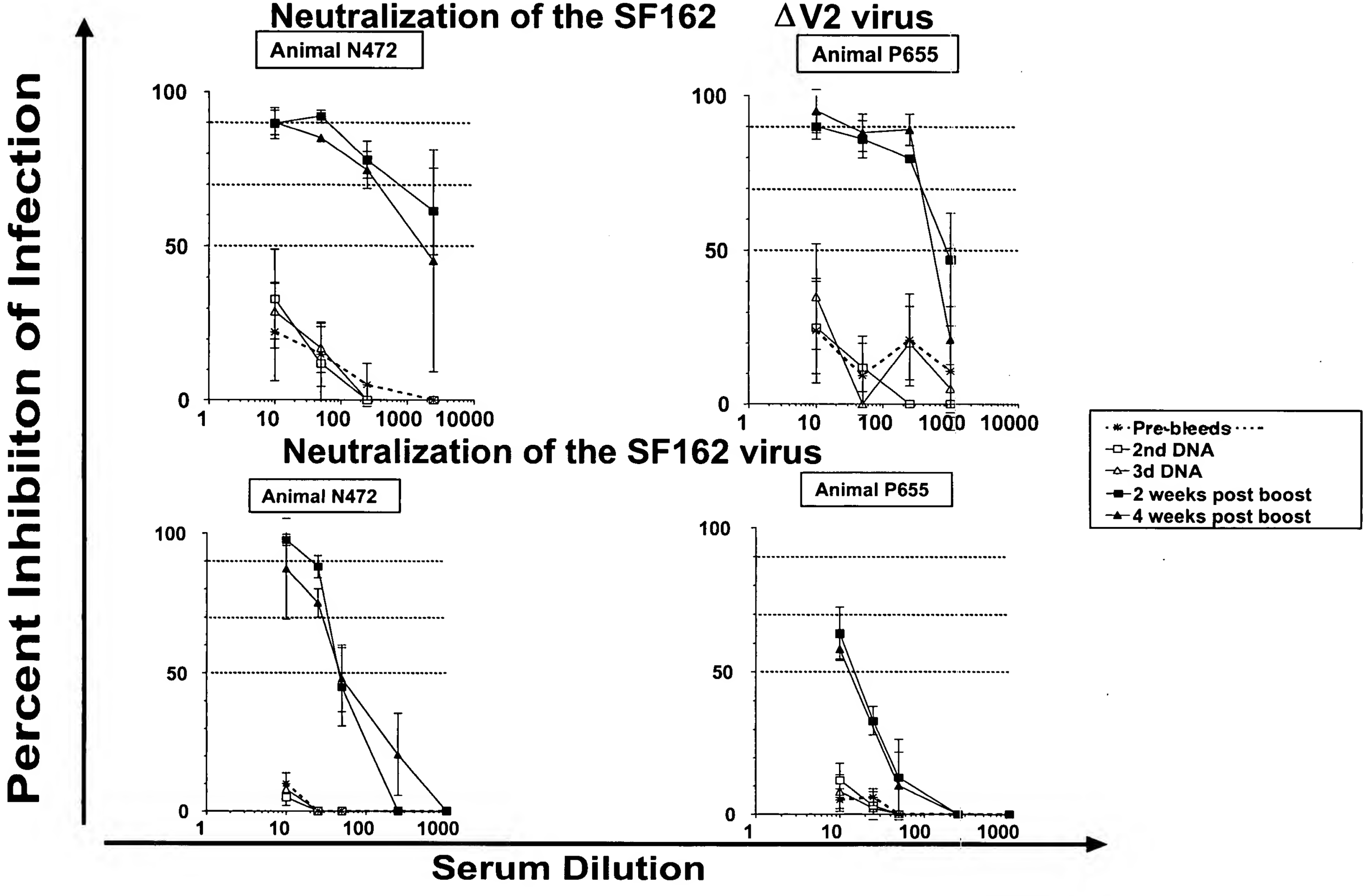




2570-1-001N FIGURE 8

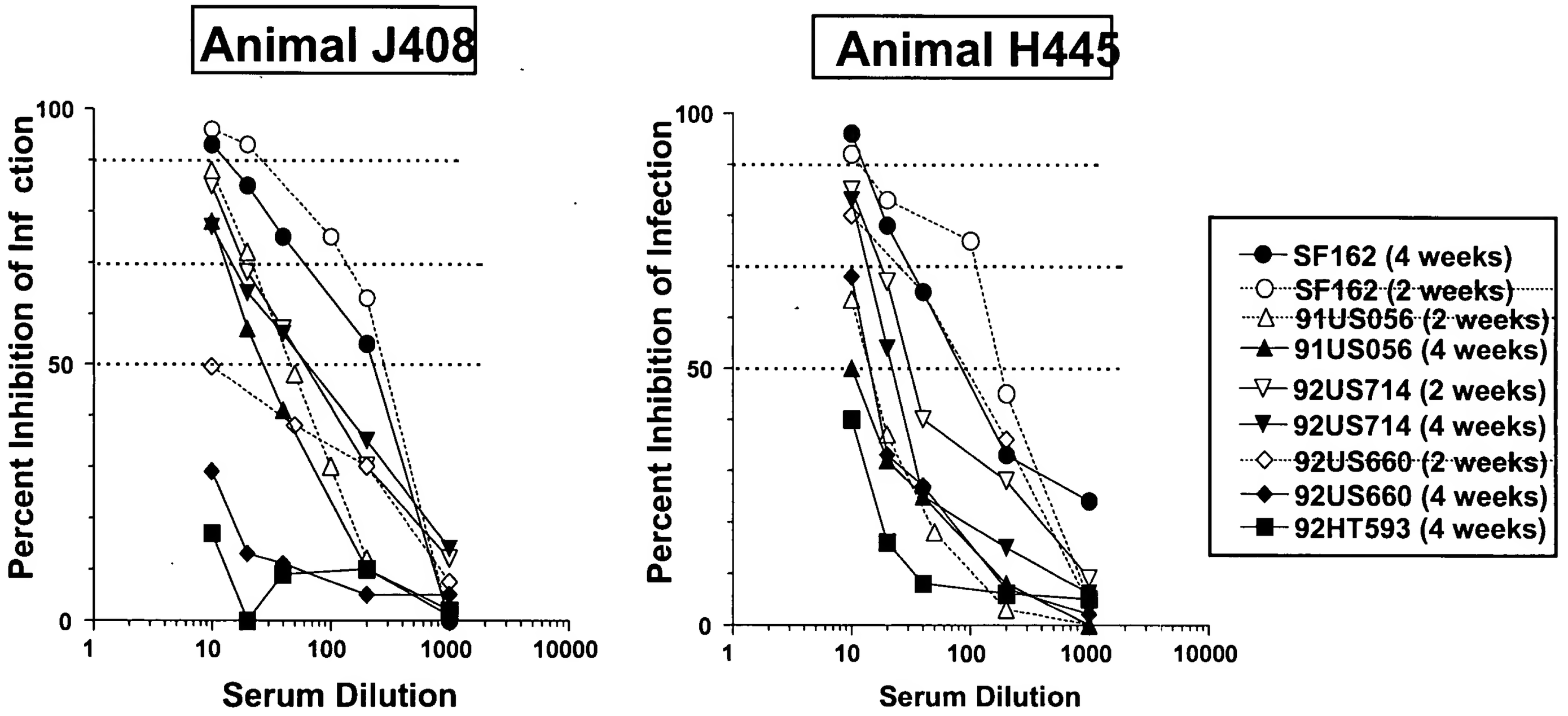
2570-1-001N FIGURE 9A




Neutralization of the SF162 ΔV2 virus
Animal N472
Animal P655
100
50
0
1
10
100
1000
10000
Neutralization of the SF162 virus
Animal N472
Animal P655
Pre-bleeds
2nd DNA
3d DNA
2 weeks post boost
4 weeks post boost
Percent Inhibition of Infection
Serum Dilution

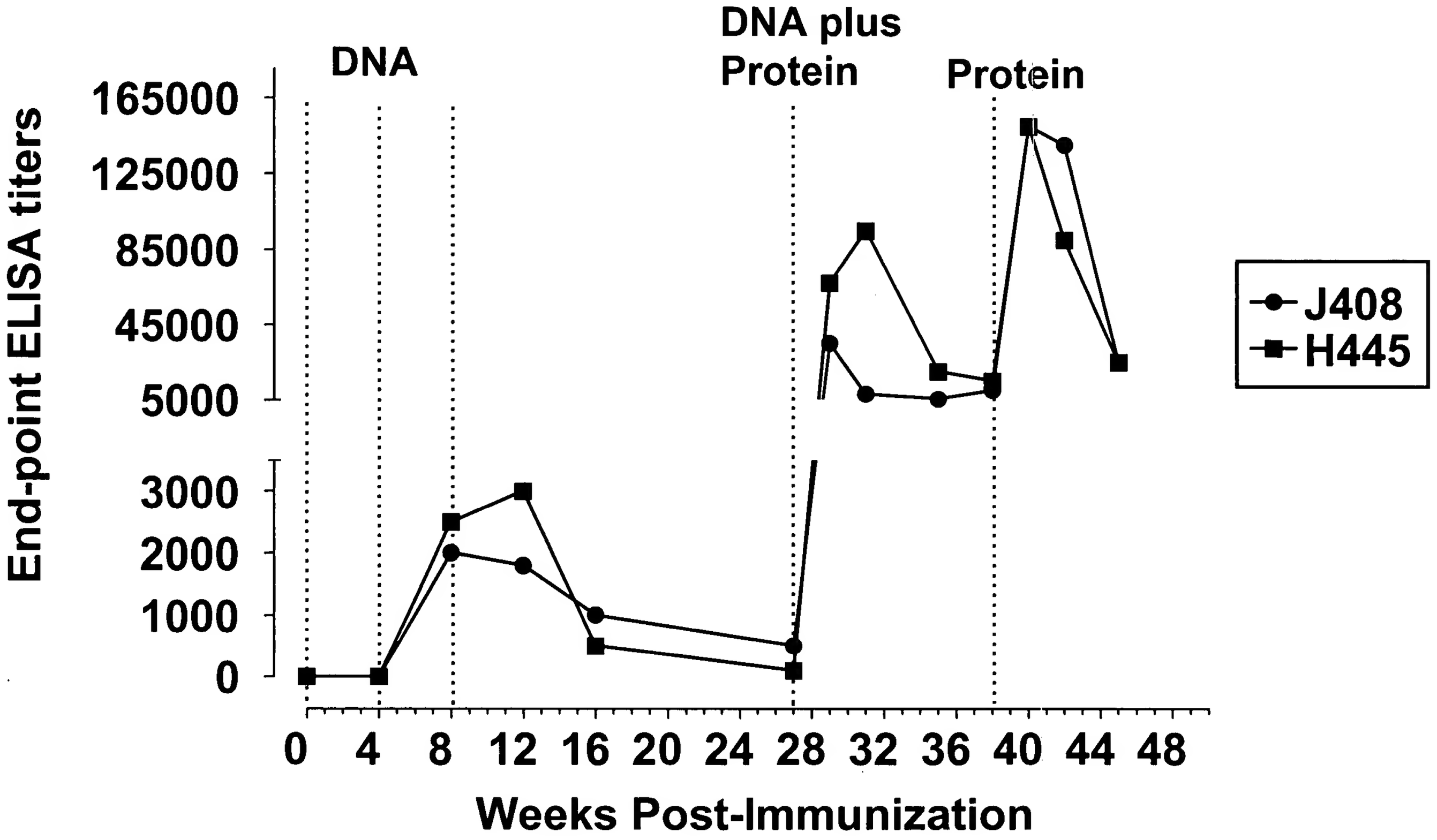
T09290*6091E6860

2570-1-001N FIGURE 10

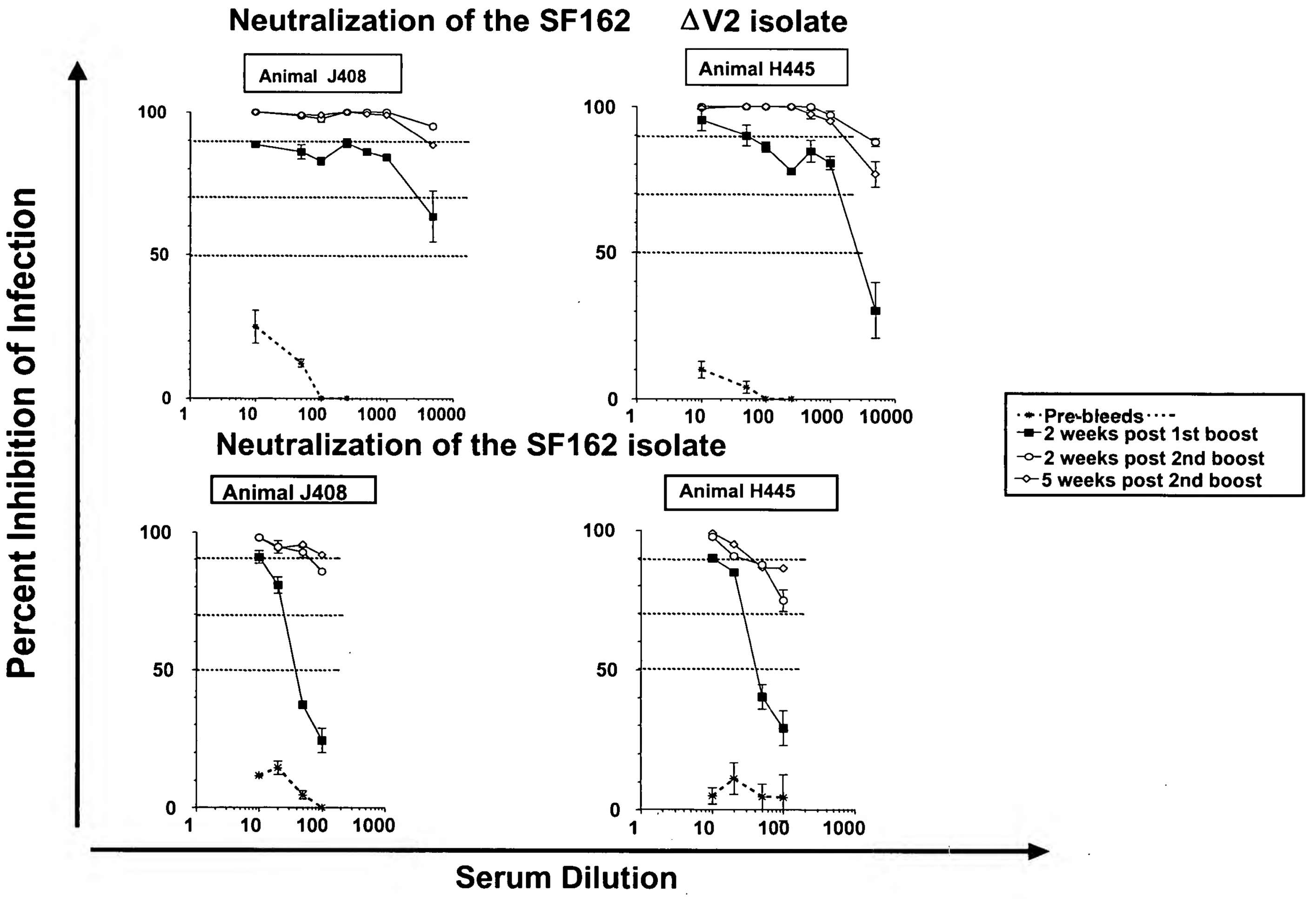


TOSZ90"6OSTG8G0

2570-1-001N FIGURE 11A

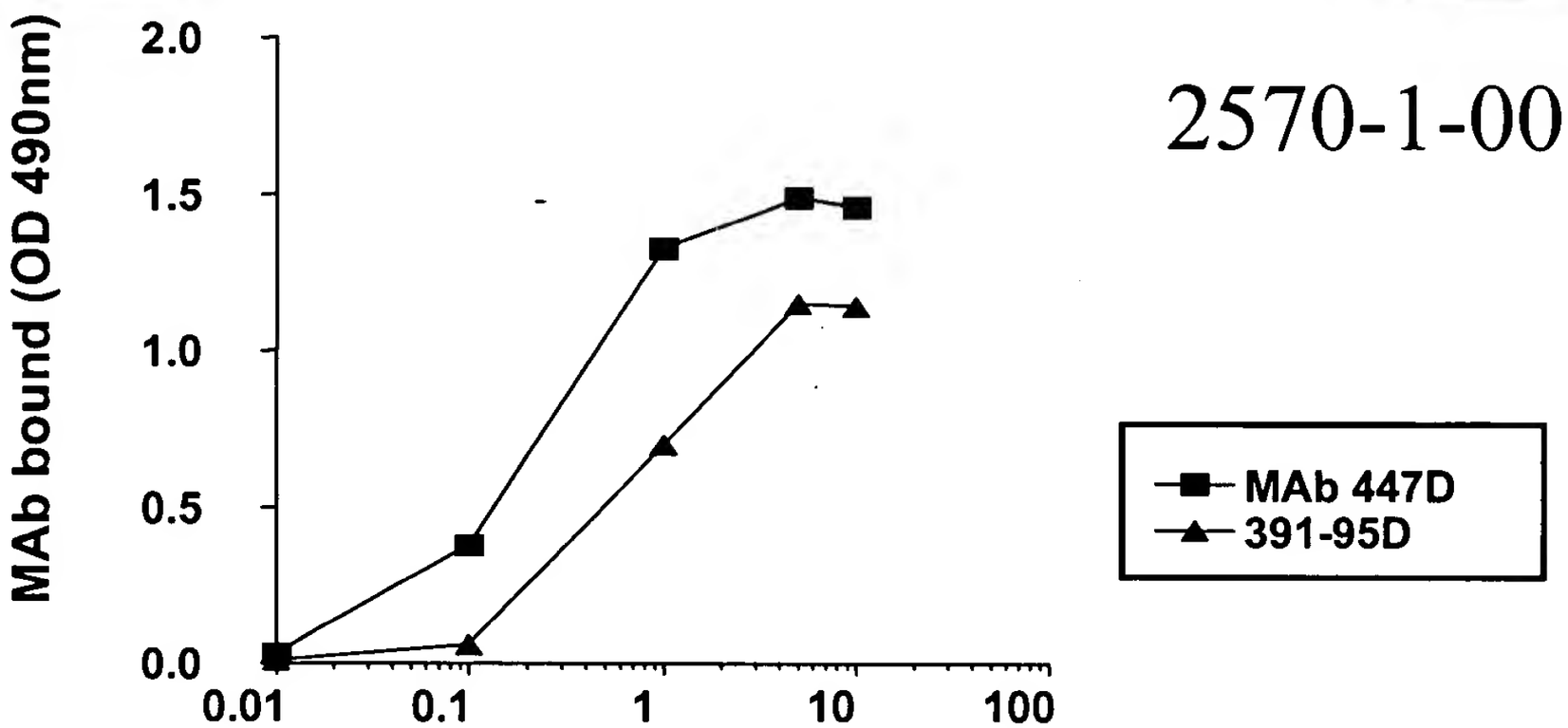


T0S290" 60916SD

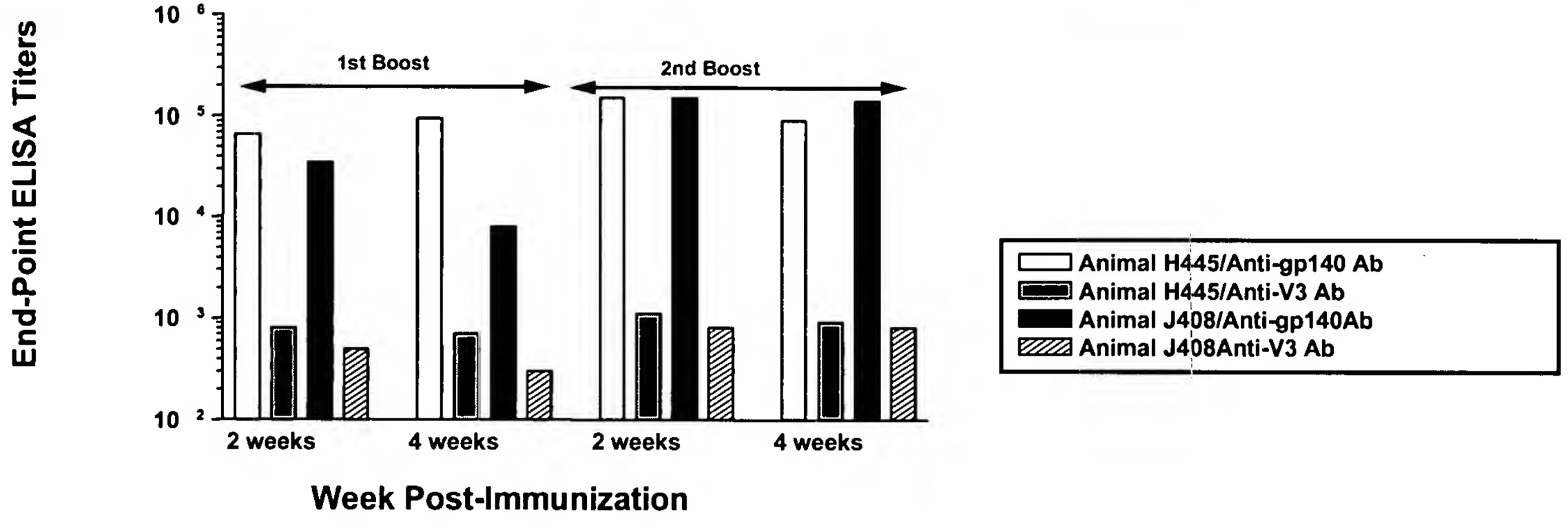


2570-1-001N FIGURE 12A-B

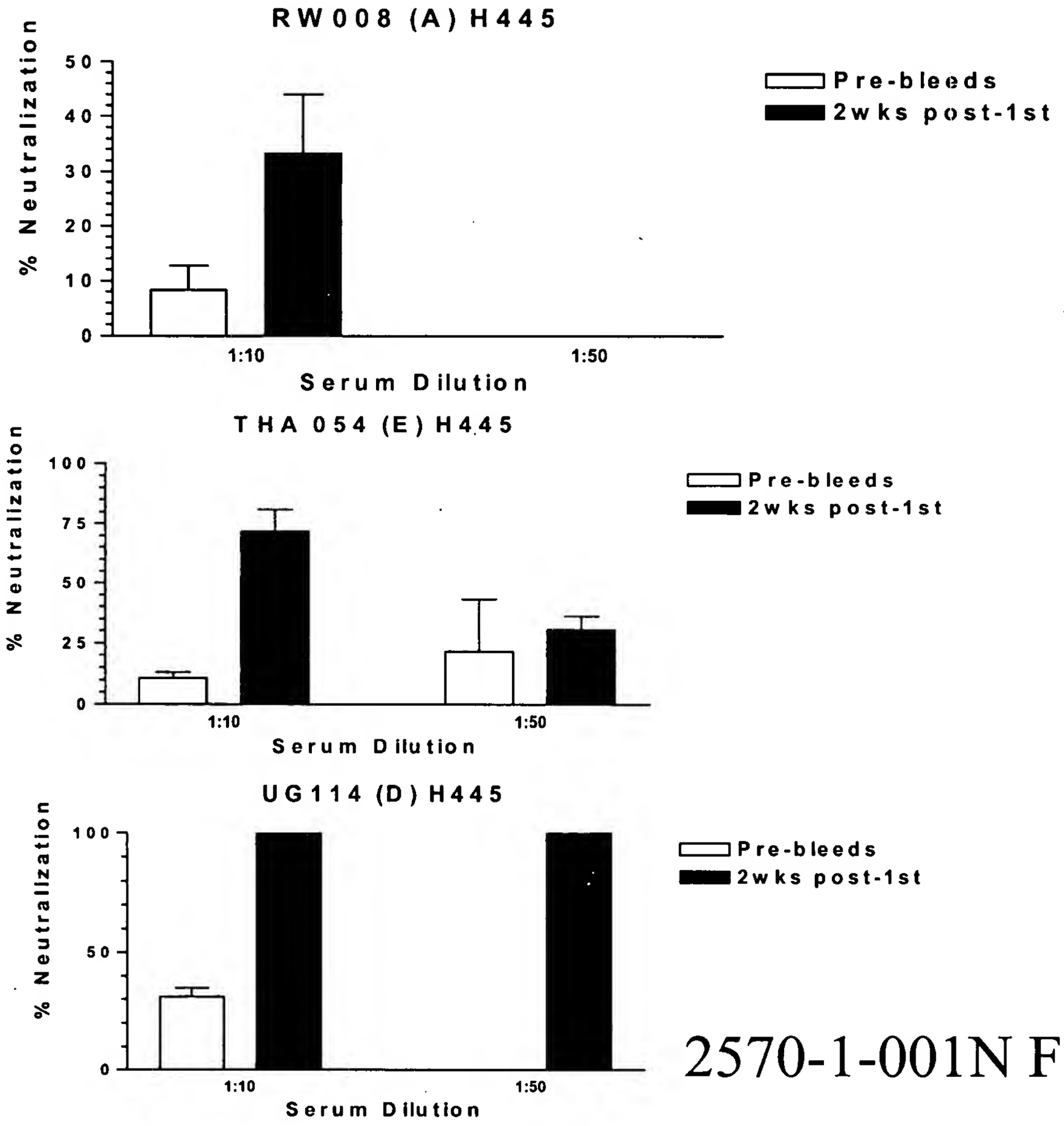
(A) Binding of Anti-V3 loop MAbs to the SF162 Δ V2-derived V3 loop peptide



(B) Binding of macaque serum antibodies to the Δ V2gp140 protein and the corresponding V3 loop peptide

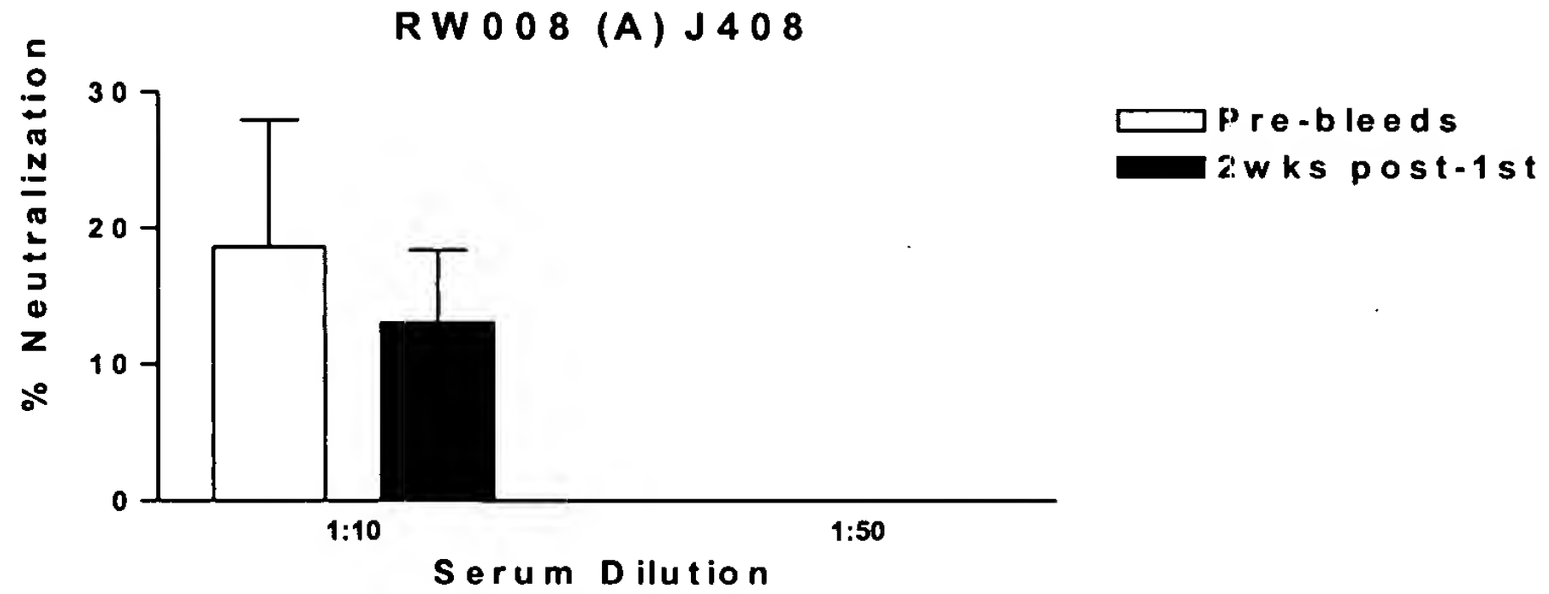


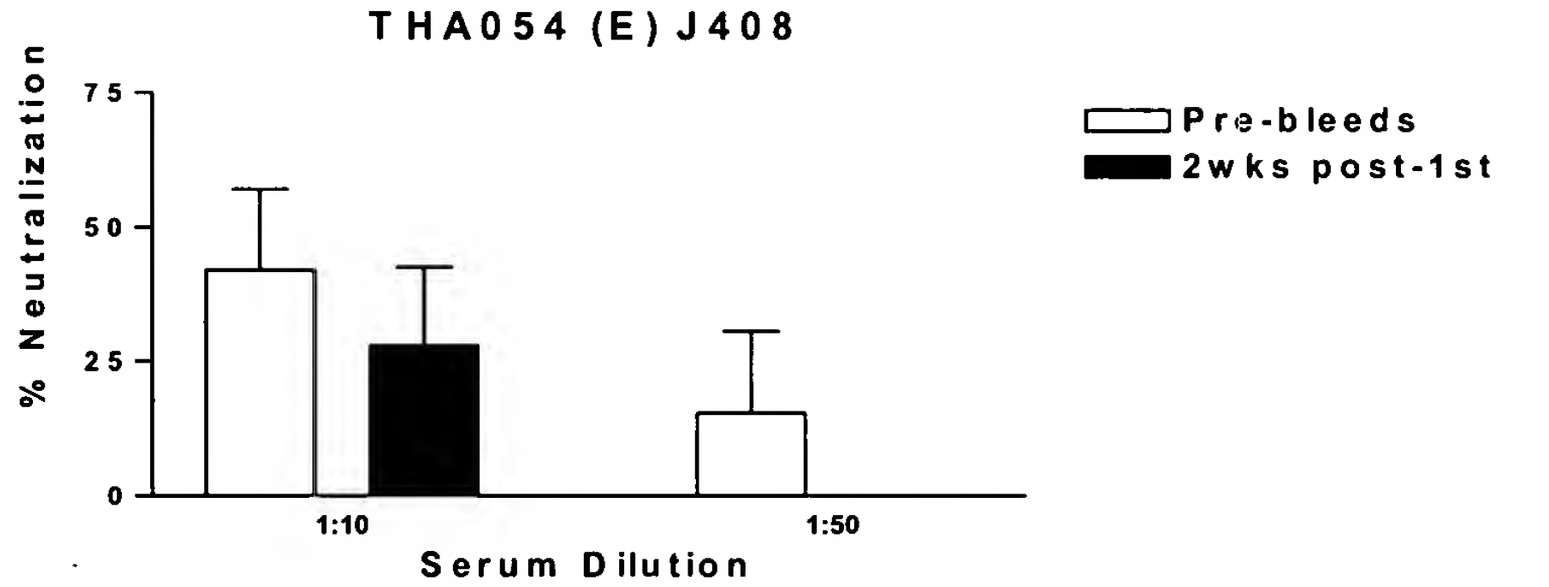
Neutralization of clade A, E and D HIV-1 viruses from sera collected from animal H445

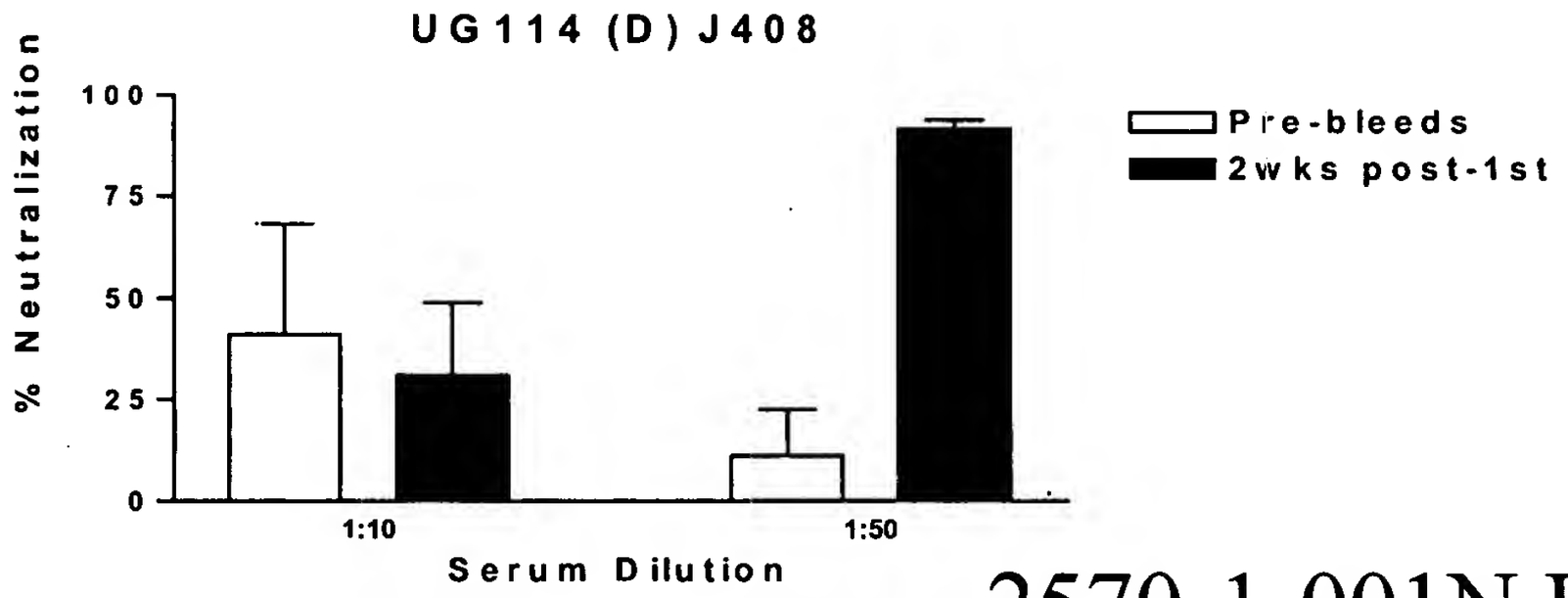


2570-1-001N FIGURE 13A

Neutralization of clade A, E and D HIV-1 isolates from sera collected from animal J408







2570-1-001N FIGURE 13B

atgagagtg aaggggatca ggaagaatta tcagcacttg tggagagggg gcaccttgct
ccttgggatg ttgatgatct gtagtgctgt agaaaaattg tgggtcacag tctattatgg
ggtacctgtg tggaaagaag caaccaccac tctattttgt gcatcagatg ctaaagccta
tgacacagag gtacataatg tctgggccac acatgcctgt gtacccacag accctaaccc
acaagaaata gtattggaaa atgtgacaga aaattttaac atgtggaaaa ataacatggt
agaacagatg catgaggata taatcagttt atgggatcaa agtctaaagc catgtgtaaa
gttaacccca ctctgtgtta ctctacattg cactaatttg aagaatgcta ctaataccaa
gagtagtaat tggaaagaga tggacagagg agaaataaaa aattgctctt tcaaggtc

-GGA-GCT-GGA-

aa attgataaat tgtaacacct cagtcattac
acaggcctgt ccaaaggtat cctttgaacc aattcccata cattattgtg ccccggctgg
ttttgcgatt ctaaagtgta atgataagaa gttcaatgga tcaggaccat gtacaaatgt
cagcacagta caatgtacac atggaattag gccagtagtg tcaactcaat tgctgttaaa
tggcagtcta gcagaagaag gggtagtaat tagatctgaa aatttcacag acaatgctaa
aactataata gtacagctga aggaatctgt agaaattaat tgtacaagac ctaacaataa
tacaagaaaa agtataacta taggaccggg gagagcattt tatgcaacag gagacataat
aggagatata agacaagcac attgtaacat tagtggagaa aaatggaata acactttaaa
acagatagtt acaaaattac aagcacaatt tgggaataaa acaatagtct ttaagcaatc
ctcaggaggg gacccagaaa ttgtaatgca cagttttaat tgtggagggg aatttttcta
ctgtaattca acacagcttt ttaatagtac ttggaataat actatagggc caaataacac
taatggaact atcacactcc catgcagaat aaaacaaatt ataaacaggt ggcaggaagt
aggaaaagca atgtatgccc ctcccatcag aggacaaatt agatgctcat caaatattac
aggactgcta ttaacaagag atggtggtaa agagatcagt aacaccaccg agatcttcag
acctggaggt ggagatatga gggacaattg gagaagtgaa ttatataaat ataaagtagt
aaaaattgag ccattaggag tagcacccac caaggcaaag agaagagtgg tgcagagaga
aaaaagagca gtgacgctag gagctatgtt ccttgggttc ttgggagcag caggaagcac
tatgggcgca cggtcactga cgctgacggt acaggccaga caattattgt ctggtatagt
gcaacagcag aacaatttgc tgagagctat tgaggcgcaa cagcatctgt tgcaactcac
agtctggggc atcaagcagc tccaggcaag agtcctggct gtggaaagat acctaaagga
tcaacagctc ctagggattt ggggttgctc tggaaaactc atttgcacca ctgctgtgcc
ttggaatgct agttggagta ataaatctct ggatcagatt tggaataaca tgacctggat
ggagtgggag agagaaattg acaattacac aaacttaata tacaccttaa ttgaagaatc
gcagaaccaa caagaaaaga atgaacaaga attattagaa ttggataagt gggcaagttt
gtggaattgg tttgacatat caaaatggct gtggtatata aaa

2570-1-001N FIGURE 14

agtgctgt agaaaaattg tgggtcacag tctattatgg
ggtacctgtg tggaaagaag caaccaccac tctattttgt gcatcagatg ctaaagccta
tgacacagag gtacataatg tctgggccac acatgcctgt gtacccacag accctaaccc
acaagaaata gtattggaaa atgtgacaga aaattttaac atgtggaaaa ataacatggt
agaacagatg catgaggata taatcagttt atgggatcaa agtctaaagc catgtgtaaa
gttaacccca ctctgtgtta ctctacattg cactaatttg aagaatgcta ctaataccaa
gagtagtaat tggaaagaga tggacagagg agaaataaaa aattgctctt tcaaggtc
-GGA-GCT-GGA-
aa attgataaat tgtaacacct cagtcattac
acaggcctgt ccaaaggtat cctttgaacc aattcccata cattattgtg ccccggctgg
ttttgcgatt ctaaagtgta atgataagaa gttcaatgga tcaggaccat gtacaaatgt
cagcacagta caatgtacac atggaattag gccagtagtg tcaactcaat tgctgttaaa
tggcagtcta gcagaagaag gggtagtaat tagatctgaa aatttcacag acaatgctaa
aactataata gtacagctga aggaatctgt agaaattaat tgtacaagac ctaacaataa
tacaagaaaa agtataacta taggaccggg gagagcattt tatgcaacag gagacataat
aggagatata agacaagcac attgtaacat tagtggagaa aaatggaata acactttaaa
acagatagtt acaaaattac aagcacaatt tgggaataaa acaatagtct ttaagcaatc
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ctgtaattca acacagcttt ttaatagtac ttggaataat actatagggc caaataacac
taatggaact atcacactcc catgcagaat aaaacaaatt ataaacaggt ggcaggaagt
aggaaaagca atgtatgccc ctcccatcag aggacaaatt agatgctcat caaatattac
aggactgcta ttaacaagag atggtggtaa agagatcagt aacaccaccg agatcttcag
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aaaaattgag ccattaggag tagcacccac caaggcaaag agaagagtgg tgcagagaga
aaaaagagca gtgacgctag gagctatgtt ccttgggttc ttgggagcag caggaagcac
tatgggcgca cggtcactga cgctgacggt acaggccaga caattattgt ctggtatagt
gcaacagcag aacaatttgc tgagagctat tgaggcgcaa cagcatctgt tgcaactcac
agtctggggc atcaagcagc tccaggcaag agtcctggct gtggaaagat acctaaagga
tcaacagctc ctagggattt ggggttgctc tggaaaactc atttgcacca ctgctgtgcc
ttggaatgct agttggagta ataaatctct ggatcagatt tggaataaca tgacctggat
ggagtgggag agagaaattg acaattacac aaacttaata tacaccttaa ttgaagaatc
gcagaaccaa caagaaaaga atgaacaaga attattagaa ttggataagt gggcaagttt
gtggaattgg tttgacatat caaaatggct gtggtatata aaa

2570-1-001N FIGURE 15

Amino acid sequence of SF162DV2 gp140

MRVKGIRKNYQHLWRGGTLLLGMLMICSAVEKLWVTVYYG
VPVWKEATTTLFCASDAKAYDTEVHNVWATHACVPTDPNPQ
EIVLENVTENFNMWKNNMVEQMHEDIISLWDQSLKPCVKLT
PLCVTLHCTNLKNATNTKSSNWKEMDRGEIKNCSFKV-**GAG**-
KLINCNTSVITQACPKVSFEPIPIHYCAPAGFAILKCNDKKFN
GSGPCTNVSTVQCTHGIRPVVSTQLLLNGSLAEEGVVIRSENF
TDNAKTIIVQLKESVEINCTRPNNNTRKSITIGPGRAFYATGDI
IGDIRQAHCNISGEKWNNTLKQIVTKLQAQFGNKTIVFKQSS
GGDPEIVMHSFNCGGEFFYCNSTQLFNSTWNNTIGPNNTNG
TITLPCRIKQIINRWQEVGKAMYAPPIRGQIRCSSNITGLLLTR
DGGKEISNTTEIFRPGGGDMRDNWRSELYKYKVVKIEPLGV
APTKAKRRVVQREKRAVTLGAMFLGFLGAAGSTMGARSL
TLTVQARQLLSGIVQQQNNLLRAIEAQQHLLQLTVWGIKLQ
ARVLAVERYLKDQQLLGIWGCSGKLICTTAVPWNASWSNK
SLDQIWNNMTWMEWEREIDNYTNLIYTLIEESQNQQEKNE
QELLELDKWASLWNWFDISKWLWYIK

2570-1-001N FIGURE 16

T09290 "6097686O

Amino acid sequence of SF162DV2 gp140 less 27 amino acid N-terminal

SAVEKLWVTVYYG
VPVWKEATTTLFCASDAKAYDTEVHNVWATHACVPTDPNPQ
EIVLE**N**VTENFNMWKNNMVEQMHEDIISLWDQSLKPCVKLT
PLCVTLHCTNLK**N**ATNTKSSNWKEMDRGEIK**N**CSFKV-**GAG**-
KLINC**N**TSVITQACPKVSFEPIPIHYCAPAGFAILKCNDKKF**N**
GSGPCT**N**VSTVQCTHGIRPVVSTQLLL**N**GSLAEEGVVIRSE**N**F
TDNAKTIIVQLKESVEI**N**CTRPN**N**NTRKSITIGPGRAFYATGDI
IGDIRQAHC**N**ISGEKW**N**NTLKQIVTKLQAQFG**N**KTIVFKQSS
GGDPEIVMHSFNCGGEFFYC**N**STQLF**N**STW**N**NTIGP**N**NT**N**G
TITLPCRIKQIINRWQEVGKAMYAPPIRGQIRCSS**N**ITGLLLTR
DGGKEIS**N**TTEIFRPGGGDMRDNWRSELYKYKVVKIEPLGV
APTKAKRRVVQREKRAVTLGAMFLGFLGAAGSTMGARSL
TLTVQARQLLSGIVQQQNNLLRAIEAQQHLLQLTVWGIKLQ
ARVLAVERYLKDQQLLGIWGCSGKLICTTAVPW**N**ASWS**N**K
SLDQIWN**N**MTWMEWEREID**N**YTNLIYTLIEESQNQQEKNE
QELLELDKWASLWNWFDISKWLWYIK

2570-1-001N FIGURE 17